

1/1	GCG CTC GAG GGT ACC GAA TTC GCA CGC GCT	31/11	CAG CTT AGC GAA CGC ATG ACC CTG GCC AGT
61/21	A L E G T E F A R A	91/31	Q L S E R M T L A S
121/41	GGT CTC AAG ACG AAA GTG AGC GAT ATC TTC	151/51	TCT CAG GAT GGG TCC TGC CCG GCT AAT ACT
181/61	G L K T K V S D I F	211/71	S Q D G S C P A N T
241/81	GCT GCC ACG GCA GGC ATC GAG AAA GAT ACC	271/91	GAC ATC AAC GGC AAG TAT GTT GCC AAG GTA
301/101	A A T A G I E K D T	331/111	D I N G K Y V A K V
361/121	ACA ACT GGT GGC ACC GCA GCT GCG TCT GGT		
	T T G G T A A A S G		
	241/81		
	TCT GAT GTG GCT ACT CCT CTG AGG GGG AAA		
	S D V A T P L R G K		
	301/101		
	AAG GGT TCT TAC ACT TGG GCC TGT ACT TCC AAC GCA		
	K G S Y T W A C T S N A D N K Y L P K T		
	361/121		
	TGC CAG ACT GCT ACC ACT ACC ACT CCG		
	C Q T A T T T P		

Fig. 1A

1/1 GCG CTC GAG GGT ACC GAA TTC GCT CGT TCG GAA GGC GCA TCT GCT CTT GCT TCG GTC AAT  
 A L E G T E F A R S E G A S A L A S V N  
 61/21 CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG AGC GTG AAG AGC GGT ACA  
 P L K T T V E E A L S R G W S V K S G T  
 121/41 GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG GCG GCA GAT GCT AAC AAA  
 G T E D A T K K E V P L G V A A D A N K  
 181/61 CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT GCA GAT ATC ACT TTG ACT  
 L G T I A L K P D P A D G T A D I T L T  
 241/81 TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT ATT ACC CTG ACT CGT ACT  
 F T M G G A G P K N K G K I I T L T R T  
 301/101 GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG CAG TTT ATT CCG AAA GGT  
 A A D G L W K C T S D Q D E Q F I P K G  
 361/121 TGC TCT AGG  
 C S R

Fig. 1B

1/1  
 GCG CTC GAG GGT ACC GAA TTC GCG CGT TCG GAA GGT GCT TCG GCG CTG GCG ACG ATC AAC  
 A L E G T E F A R S E G A S A L A T I N  
 61/21  
 CCG CTG AAG ACC ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT GCT GGT AGC AAA ATT AAA  
 P L K T T V E E S L S R G I A G S K I K  
 121/41  
 ATT GGT ACT ACT GCT TCT ACT GCG ACC GAA ACA TAT GCC GGC GTC GAG CCG GAT GCC AAC  
 I G T A S T A T E T Y A G V E P D A N  
 181/61  
 AAG TTG GGT GTA ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG GGT GAT ATT ACC TTT ACC  
 K L G V I A V A I E D S G A G D I T F T  
 241/81  
 TTC CAG ACT GGT ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT ATC ACT CTG AAC CGT ACT  
 F Q T G T S S P K N A T K V I T L N R T  
 301/101  
 GCG GAT GGG GTC TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG TTC ACT CCG AAA GGT TCT  
 A D G V W A C K S T Q D P M F T P K G S  
 361/121  
 GAT AAC  
 D N

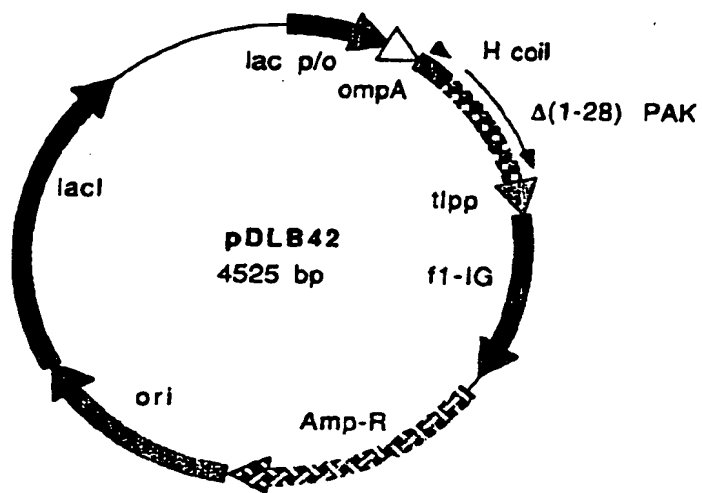
Fig. 1C

1/1	GGC CTC GAG GGT ACC GAA TTC GCC CGT ACC	31/11	CAG GTG ACC CGT GCC GTG AGT GAA GTC AGC
61/21	A L E G T E F A R T Q V	91/31	T R A V S E V S
121/41	GGC CTG AAG ACC GCT GCG GAG TCG GCG ATT	151/51	CTG GAA GGG AAG GAG ATT GTT TCC AGC GCG
181/61	A L K T A A E S A I L E	211/71	G K E I V S S A
241/81	ACT CCT AAA GAT ACC CAG TAT GAC ATT GGC	271/91	TTC ACC GAG TCT ACT TTG CTA GAT GGT TCT
301/101	T P K D T Q Y D I G F T E S T L L D G S	331/111	G T V E L V A T
361/121	GGT AAG AGT CAG ATC CAG GTA ACG GAC AAT		GGC ACC GTT GAG TTG GTC GCT ACC
	G K S Q I Q V T D N K D G A		GTA ATC ACT GTT TCG CGT AAA AAT
	TTG GGT AAA TCT TCT GGT TCC GCC ATC AAA		G A V I T V S R K N
	L G K S S G S A I K G A		
	GAC GGA GTC TGG AAC TGC AAA ATC ACC AAA		ACT CCT ACA GCT TGG AAG CCC AAC TAC GCT
	D G V W N C K I T K T P T A W K P N Y A		
	CCG GCT AAT TGC CCG AAT TCC		
	P A N C P N S		

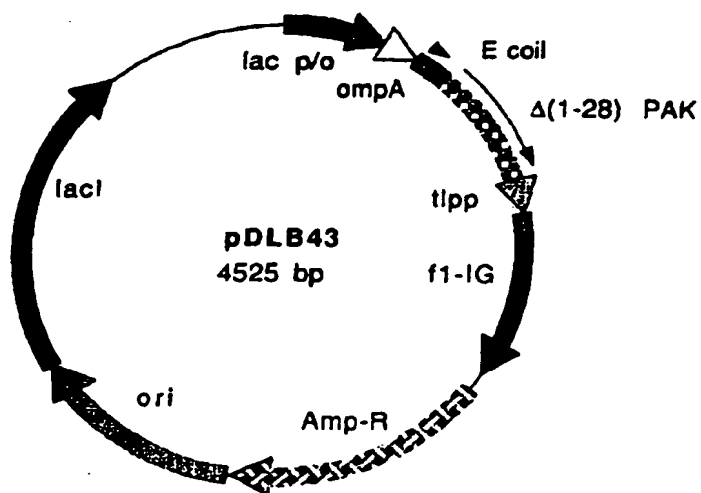
Fig. 1D

1/1 GCG CTC GAG GGT ACC GAA TTC TCT CGC TCT CAG GTC TCC AGG GTT ATG GCG GAG GCT GGC  
 A L E G T E F S R S Q V S R V M A E A G  
 61/21 TCC TTG AAG ACT GCA GTT GAG GCC TGC CTC CAG GAT GGT CGT ACT GCT GTG GGT ACT GCT  
 S L K T A V E A C L Q D G R T A V G T A  
 121/41 GCT GGT CAA TGC GAT CCG GGT GCG ACC GGT TCC AGT TTG TTG ACT GGT GCT TCT CAG ACT  
 A G Q C D P G A T G S S L L T G A S Q T  
 181/61 TCT CAA ACC CTG CCA ACC AAT ACC GGT GTT CCG CAG GTT CTG GAT CCT CTG ACT ACT CAA  
 S Q T L P T N T G V P Q V L D P L T T Q  
 241/81 ACC ACT ATC ATT GCG ACT TTT GGT AAC GGC GCA TCC GCA GCT ATT TCT GGC CAG ACT CTG  
 T T I A T F G N G A S A A I S G Q T L  
 301/101 ACC TGG ACT CGT GAT GTT AAT GGT GGC TGG AGC TGT GCT ACT ACC GTA GAT GCT AAA TTC  
 T W T R D V N G G W S C A T T V D A K F  
 361/121 CGT CCT AAT GGC TGT ACT GAC  
 R P N G C T D

Fig. 1E



**Fig. 2A**



**Fig. 2B**

DNA sequence 613 b.p. ttctagataacy ...AAGAAGCTTGGG linear

86/1	116/11
gcy ctc gag cac cat cat cac cat ggt ggt ggt ggc gag att gag gcc ctc aag gct gaa	
A L E H H H H H G G G G E I E A L K A E	
146/21	176/31
atc gaa gcc cta aag gcc gag ata gaa gca ctt aag gca gag atc gag gcy cta aaa gcy	
I E A L K A E I E A L K A E I E A L K A	
206/41	236/51
gaa ata gag gct ctg aag gca ggc ggt gga gga gaa ttc GCT CGT TCG GAA GGC GCA TCT	
E I E A L K A G G G G E F A R S E G A S	
266/61	296/71
GCT CTT GCT TCG GTC AAT CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG	
A L A S V N P L K T T V E E A L S R G W	
326/81	356/91
AGC CTG AAG AGC GGT ACA GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG	
S V K S G T G T E D A T K K E V P L G V	
386/101	416/111
GCG GCA GAT GCT AAC AAA CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT	
A A D A N K L G T I A L K P D P A D G T	
446/121	476/131
GCA GAT ATC ACT TTG ACT TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT	
A D I T L T F T M G G A G P K N K G K I	
506/141	536/151
ATT ACC CTG ACT CGT ACT GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG	
I T L T R T A A D G L W K C T S D Q D E	
566/161	
CAG TTT ATT CCG AAA GGT TGC TCT AGG	
Q F I P K G C S R	

Fig. 3A

DNA sequence 613 b.p. ttctagataacy ... AAGAAGCTTGGG linear

86/1	116/11
gcy ctc gag cac cat cat cac cat ggt ggt ggt ggc gag gta tcc gct tta gag aaa gaa	
A L E H H H H H G G G G E V S A L E K E	
146/21	176/31
ggt tct gct ctc gaa aaa gag gtc agt gct ctg gaa aaa gag gtg tca gcc ttg gaa aag	
V S A L E K E V S A L E K E V S A L E K	
206/41	236/51
gaa gta tca gca ctt gag aag ggc ggt gga gga gaa ttc GCT CGT TCG GAA GGC GCA TCT	
E V S A L E K G G G G E F A R S E G A S	
266/61	296/71
GCT CTT GCT TCG GTC AAT CCG TTG AAG ACT ACC GTT GAA GAG GCG CTT TCT CGT GGT TGG	
A L A S V N P L K T T V E E A L S R G W	
326/81	356/91
AGC GTG AAG AGC GGT ACA GGT ACA GAG GAC GCT ACT AAG AAA GAG GTT CCT CTG GGG GTG	
S V K S G T G T E D A T K K E V P L G V	
386/101	416/111
GCG GCA GAT GCT AAC AAA CTG GGT ACT ATC GCA CTC AAA CCC GAT CCT GCT GAT GGT ACT	
A A D A N K L G T I A L K P D P A D G T	
446/121	476/131
GCA GAT ATC ACT TTG ACT TTC ACT ATG GGC GGT GCA GGA CCG AAG AAT AAA GGG AAA ATT	
A D I T L T F T M G G A G P K N K G K I	
506/141	536/151
ATT ACC CTG ACT CGT ACT GCA GCT GAT GGT CTC TGG AAG TGC ACC AGT GAT CAG GAT GAG	
I T L T R T A A D G L W K C T S D Q D E	
566/161	
CAG TTT ATT CCG AAA GGT TGC TCT AGG	
Q F I P K G C S R	

Fig. 3B

DNA sequence 631 b.p. ttctagataacg ... AGCAAGCTTGGG linear

86/1	116/11
gag ctc gag cac cat cat cac cat ggt ggt ggt ggc gag att gag gcc ctc aag gct gaa	
A L E H H H H H G G G G E I E A L K A E	
146/21	176/31
atc gaa gcc cta aag gcc gag ata gaa gca ctt aag gca gag atc gag gcg cta aaa gcg	
I E A L K A E I E A L K A	
206/41	236/51
gaa ata gag gct ctg aag gca ggc ggt gga gga gaa ttc GCA CGC GCT CAG CTT AGC GAA	
E I E A L K A G G G G E F A R A Q L S E	
266/61	296/71
CGC ATG ACC CTG GCC AGT GGT CTC AAG ACG AAA GTG AGC GAT ATC TTC TCT CAG GAT GGG	
R M T L A S G L K T K V S D I F S Q D G	
326/81	356/91
TGC TGC CCG GCT AAT ACT GCT GCC ACG GCA GGC ATC GAG AAA GAT ACC GAC ATC AAC GGC	
S C P A N T A A T A G I E K D T D I N G	
386/101	416/111
AAG TAT GTT GCC AAG GTA ACA ACT GGT GGC ACC GCA GCT CGC TCT GGT GGT TGC ACT ATC	
K Y V A K V T T G G T A A A S G G C T I	
446/121	476/131
GTT GCT ACT ATG AAA GCC TCT GAT CTG GCT ACT CCT CTG AGG GGG AAA ACT CTG ACT TTG	
V A T M K A S D V A T P L R G K T L T L	
506/141	536/151
ACT CTA GGA AAT GCT GAC AAG GGT TCT TAC ACT TGG GCC TGT ACT TCC AAC GCA GAT AAC	
T L G N A D K G S Y T W A C T S N A D N	
566/161	596/171
AAG TAC CTG CCA AAA ACC TGC CAG ACT GCT ACC ACT ACC ACT CCG	
K Y L P K T C Q T A T T T T P	

Fig. 4A

DNA sequence 631 b.p. ttctagataacg ... AGCAAGCTTGGG linear

86/1	116/11
gag ctc gag cac cat cat cac cat ggt ggt ggt ggc gag gta tcc gct tta gag aaa gaa	
A L E H H H H H G G G G E V S A L E K E	
146/21	176/31
gtt tct gct ctc gaa aaa gag gtc agt gct ctg gaa aaa gag gtg tca gcc ttg gaa aag	
V S A L E K E V S A L E K	
206/41	236/51
gaa gta tca gca ctt gag aag ggc ggt gga gga gaa ttc GCA CGC GCT CAG CTT AGC GAA	
E V S A L E K G G G G E F A R A Q L S E	
266/61	296/71
CGC ATG ACC CTG GCC AGT GGT CTC AAG ACG AAA GTG AGC GAT ATC TTC TCT CAG GAT GGG	
R M T L A S G L K T K V S D I F S Q D G	
326/81	356/91
TCC TGC CCG GCT AAT ACT GCT GCC ACG GCA GGC ATC GAG AAA GAT ACC GAC ATC AAC GGC	
S C P A N T A A T A G I E K D T D I N G	
386/101	416/111
AAG TAT GTT GCC AAG GTA ACA ACT GGT GGC ACC GCA GCT CGC TCT GGT GGT TGC ACT ATC	
K Y V A K V T T G G T A A A S G G C T I	
446/121	476/131
GTT GCT ACT ATG AAA GCC TCT GAT CTG GCT ACT CCT CTG AGG GGG AAA ACT CTG ACT TTG	
V A T M K A S D V A T P L R G K T L T L	
506/141	536/151
ACT CTA GGA AAT GCT GAC AAG GGT TCT TAC ACT TGG GCC TGT ACT TCC AAC GCA GAT AAC	
T L G N A D K G S Y T W A C T S N A D N	
566/161	596/171
AAG TAC CTG CCA AAA ACC TGC CAG ACT GCT ACC ACT ACC ACT CCG	
K Y L P K T C Q T A T T T T P	

Fig. 4B



DNA sequence 610 b.p. ttctagataacg ... CGAAAGCTTGGG linear

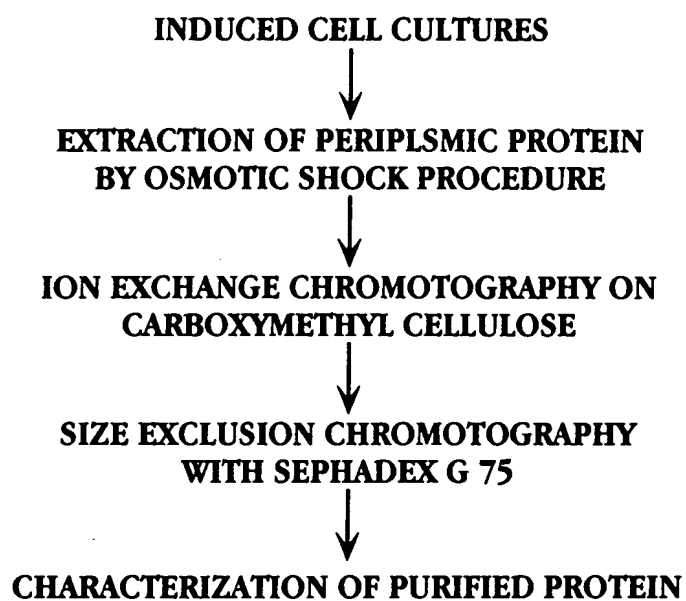
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gcy ctc gag cac cat cat cac cat ggt ggt	ggt ggc gag att gag gcc ctc aag gct gaa
A L E H H H H H G G	G G E I E A L K A E
146/21	176/31
atc gaa gcc cta aag gcc gag ata gaa gca	ctt aag gca gag atc gag gcg cta aaa gcg
I E A L K A E I E A	L K A E I E A L K A
206/41	236/51
gaa ata gag gct ctg aag gca ggc ggt gga	gga gaa ttc GCG CGT TCG GAA GGT GCT TCG
E I E A L K A G G G	G E F A R S E G A S
266/61	296/71
GCG CTG GCG ACG ATC AAC CCG CTG AAG ACC	ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT
A L A T I N P L K T	T V E E S L S R G I
326/81	356/91
GCT GGT AGC AAA ATT AAA ATT GGT ACT ACT	GCT TCT ACT GCG ACC GAA ACA TAT GCC GGC
A G S K I K I G T T	A S T A T E T Y A G
386/101	416/111
GTC GAG CCG GAT GCC AAC AAG TTG GGT GTA	ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG
V E P D A N K L G V	I A V A I E D S G A
446/121	476/131
GCT GAT ATT ACC TTT ACC TTC CAG ACT GGT	ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT
G D I T F T F Q T G	T S S P K N A T K V
506/141	536/151
ATC ACT CTG AAC CGT ACT GCG GAT GGG GTC	TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG
I T L N R T A D G V	W A C K S T Q D P M
566/161	
TTC ACT CCG AAA GGT TCT GAT AAC	
F T P K G S D N	

Fig. 5A

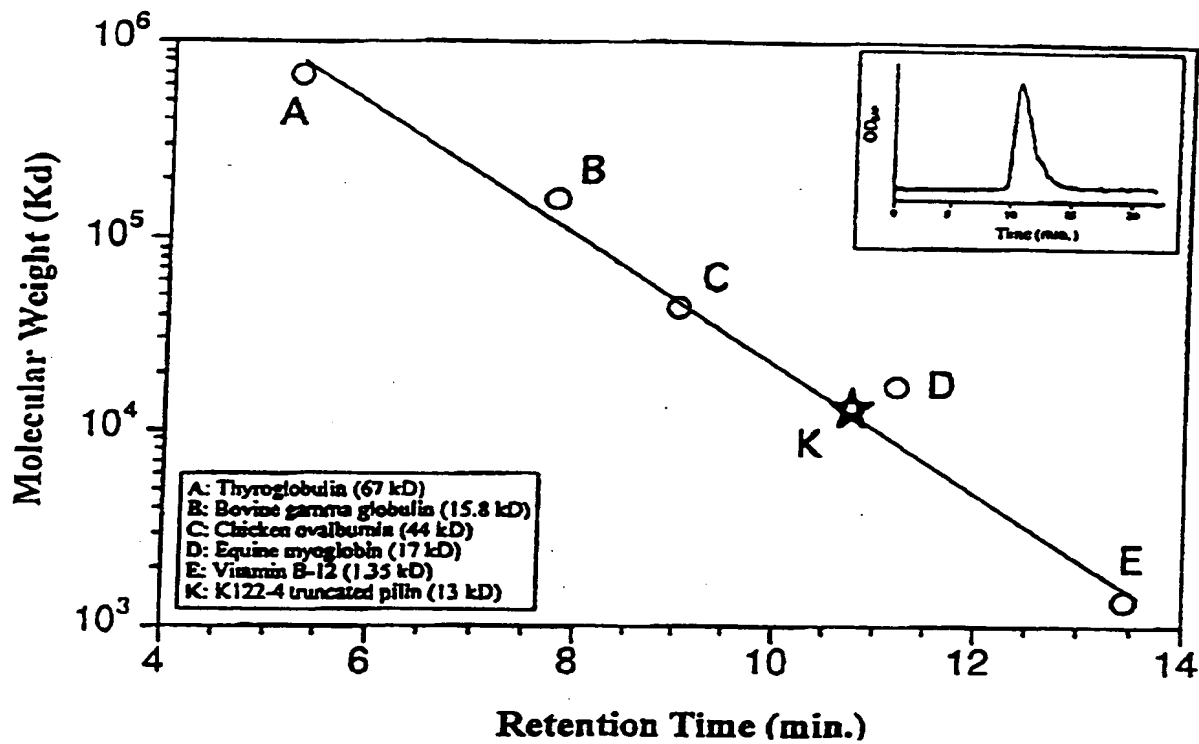
DNA sequence 610 b.p. ttctagataacg ... CGAAAGCTTGGG linear

86/1	116/11
gcy ctc gag cac cat cat cac cat ggt ggt	ggt ggc gag gta tcc gct tta gag aaa gaa
A L E H H H H H G G	G G E V S A L E K E
146/21	176/31
ggt tct gct ctc gaa aaa gag gtc agt gct	ctg gaa aaa gag gtg tca gcc ttg gaa aag
V S A L E K E V S A	L E K E V S A L E K
206/41	236/51
gaa gta tca gca ctt gag aag ggc ggt gga	gga gaa ttc GCG CGT TCG GAA GGT GCT TCG
E V S A L E K G G G	G E F A R S E G A S
266/61	296/71
GCG CTG GCG ACG ATC AAC CCG CTG AAG ACC	ACT GTT GAA GAG TCG CTG TCG CGT GGA ATT
A L A T I N P L K T	T V E E S L S R G I
326/81	356/91
GCT GGT AGC AAA ATT AAA ATT GGT ACT ACT	GCT TCT ACT GCG ACC GAA ACA TAT GCC GGC
A G S K I K I G T T	A S T A T E T Y A G
386/101	416/111
GTC GAG CCG GAT GCC AAC AAG TTG GGT GTA	ATT GCT GTA GCA ATC GAA GAT AGT GGT GCG
V E P D A N K L G V	I A V A I E D S G A
446/121	476/131
GCT GAT ATT ACC TTT ACC TTC CAG ACT GGT	ACC TCT AGT CCC AAG AAT GCT ACT AAA GTT
G D I T F T F Q T G	T S S P K N A T K V
506/141	536/151
ATC ACT CTG AAC CGT ACT GCG GAT GGG GTC	TGG GCT TGT AAA TCT ACC CAG GAT CCG ATG
I T L N R T A D G V	W A C K S T Q D P M
566/161	
TTC ACT CCG AAA GGT TCT GAT AAC	
F T P K G S D N	

Fig. 5B

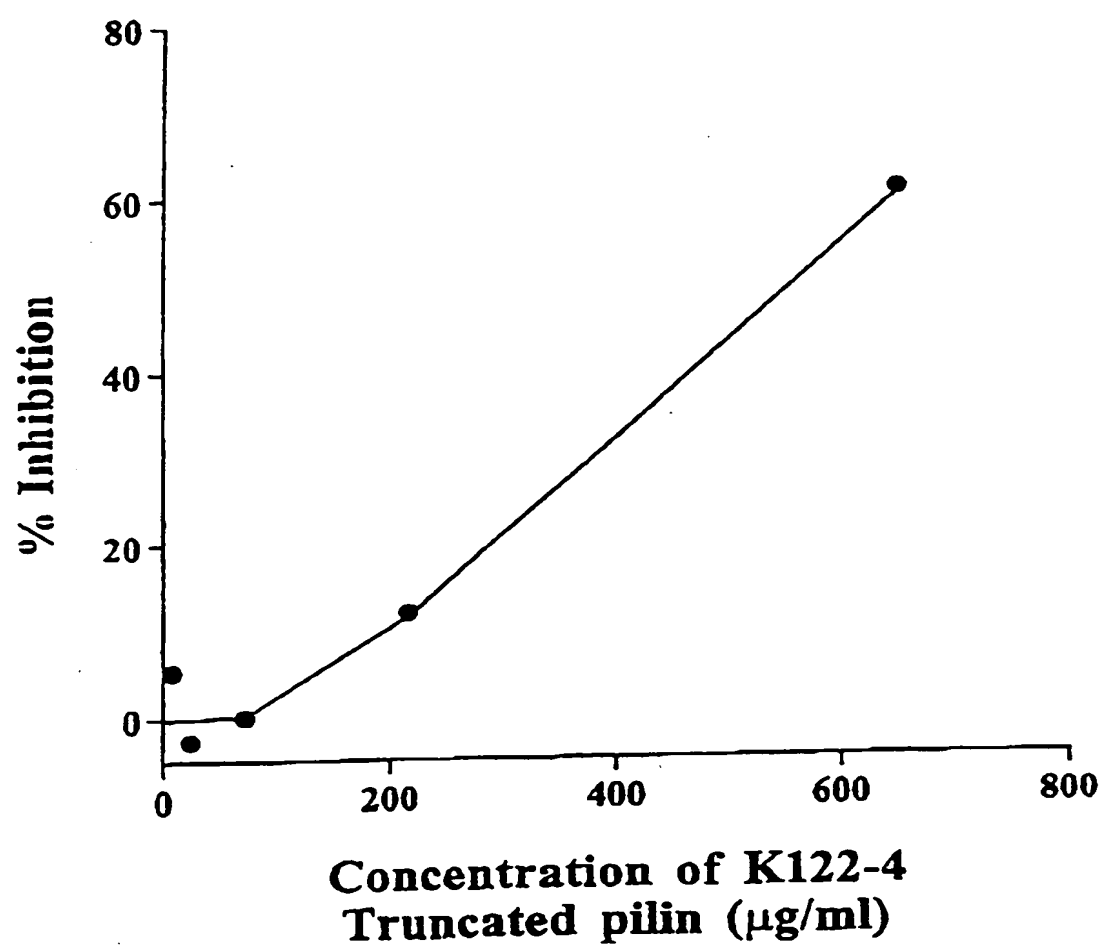


**Fig. 6**



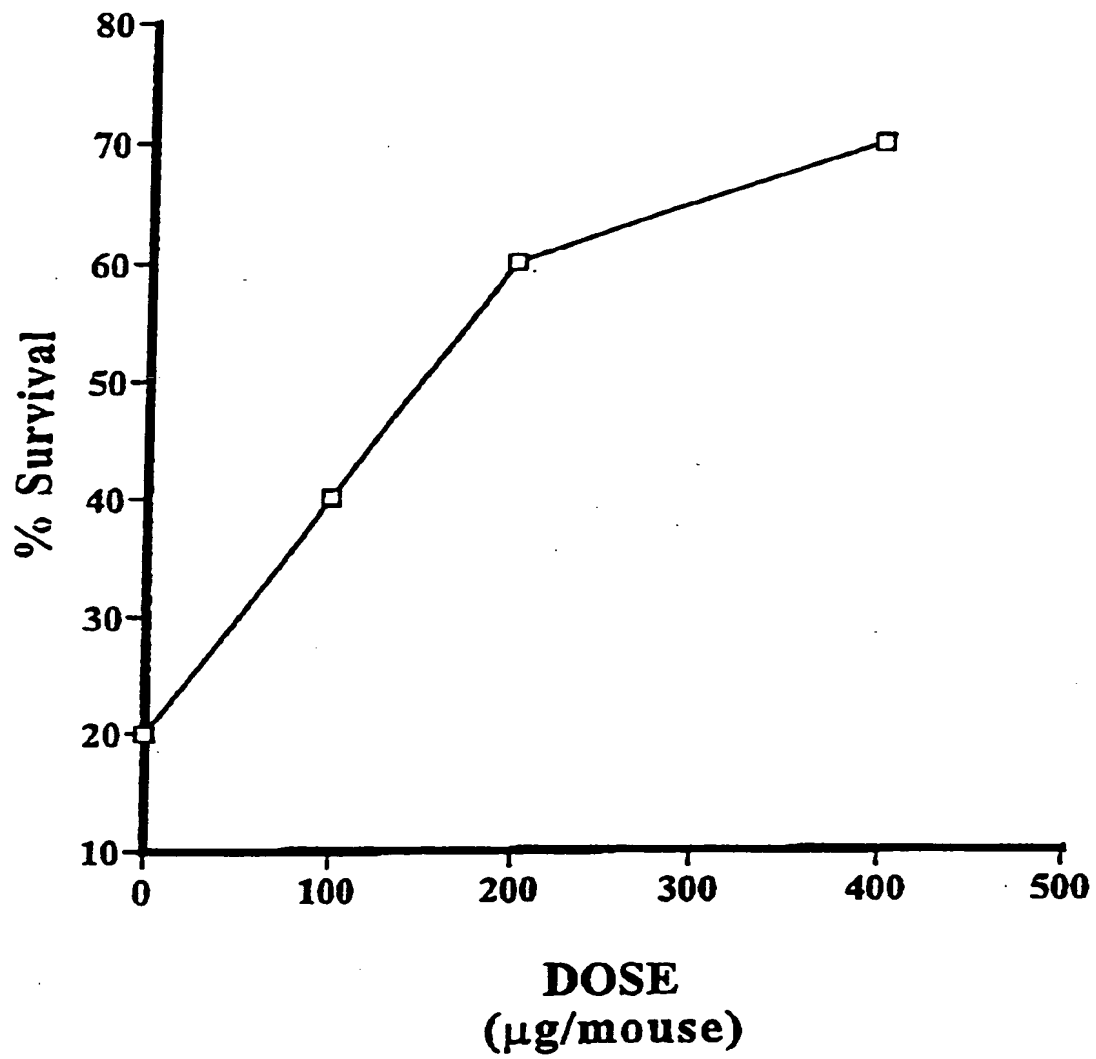
**Fig. 7**

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T04250 65159860



**Fig. 8**

00855159 052401



**Fig. 9**